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Progressive image watermarking

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Dept. of Electr. & Comput. Eng., Carnegie Mellon Univ., Pittsburgh, PA, USA;

This paper appears in: **Multimedia and Expo, 2000. ICME 2000. 2000 IEI International Conference on**

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Publication Date: 30 July-2 Aug. 2000
Location: New York, NY USA
On page(s): 1025 - 1028 vol.2
Volume: 2
Reference Cited: 7
Number of Pages: 3 vol. xxxv+17778
Inspec Accession Number: 6704253

Abstract:
Progressive transmission of images is very useful in many applications, espec image transmission over the Internet. To view an image, people would want t of the image while the image transmission is in progress, rather than having t the end of the image transmission. On the other hand, the ease of transmissi copying of images creates the need to use digital watermarking to embed tl information seamlessly into the media. We propose a progressive image wate scheme. In this scheme, the watermark is embedded in such a way that we part of it even when the watermarked image is still being transmitted. As tr progresses, the retrieved watermark has a decreasing bit error rate. Our pro methods not only transmit the watermarked image progressively, but also select watermark embedding locations robust to various attacks

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